Exercise 5:

Setting up the server:

```
PS C:\Users\Oyo Magpayo\Desktop> docker run --rm -d --name apache -p 80:80 httpd:2.4 Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
06954f8169fd: Pull complete
Digest: sha256:48bae0ac5d0d75168f1c1282c0eb21b43302cb1b5c5dc9fa3b4a758ccfb36fe9
Status: Downloaded newer image for httpd:2.4
20b3cafbd34c6888f428cbffb460857f3f108e0be6e3339a91cf1cfa8dd9bebb
PS C:\Users\Oyo Magpayo\Desktop> curl localhost
StatusCode
                    : 200
StatusDescription : OK
                    : <html><body><h1>It works!</h1></body></html>
Content
                    : HTTP/1.1 200 OK
Keep-Alive: timeout=5, max=100
RawContent
                       Connection: Keep-Alive
                       Accept-Ranges: bytes
                       Content-Length: 45
                      Content-Type: text/html
Date: Tue, 22 Jun 2021 15:09:14 GMT
ETag: "2d-432a5e4a73a80...
                    : {}
: {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes],
[Content-Length, 45]...}
Forms
Headers
                    : 0
Images
InputFields
Links
                     : mshtml.HTMLDocumentClass
ParsedHtml
RawContentLength: 45
PS C:\Users\Oyo Magpayo\Desktop> docker cp index.html apache:/usr/local/apache2/htdocs/
PS C:\Users\Oyo Magpayo\Desktop> curl localhost
StatusCode
                    : 200
StatusDescription : OK
                    : <html><body><h1>It works in Docker!</h1></body></html>
Content
RawContent
                   : HTTP/1.1 200 OK
```

```
Accept-Ranges: bytes
                        Content-Length: 56
                       Content-Type: text/html
Date: Tue, 22 Jun 2021 15:09:46 GMT
ETag: "38-5c55952a72440"
                        Last-Modified: Tue, 22 Jun 2021 11:45:13 GMT
                        Server:...
                     : {}
: {[Accept-Ranges, bytes], [Content-Length, 56], [Content-Type, text/html], [Date, Tue, 22 Jun 2021
Forms
Headers
                        15:09:46 GMT]...}
                     : {}
: {}
: {}
Images
InputFields
Link
ParsedHtml : mshtml.HTMLDocumentClass
RawContentLength : 56
PS C:\Users\Oyo Magpayo\Desktop> docker stop apache
PS C:\Users\Oyo Magpayo\Desktop> docker run --rm -d --name apache -p 80:80 httpd:2.4
5cf5119e9f8d2f5619704136b7ac92060baabbf8e6c030e43a8cecde7e05bb4a
PS C:\Users\Oyo Magpayo\Desktop> curl localhost
StatusCode
                    : 200
StatusDescription : OK
Content
                    : <html><body><h1>It works!</h1></body></html>
                     : HTTP/1.1 200 OK
RawContent
                       Accept-Ranges: bytes
                        Content-Length: 45
                        Content-Type: text/html
                       Date: Tue, 22 Jun 2021 15:10:59 GMT
ETag: "2d-432a5e4a73a80"
                        Last-Modified: Mon, 11 Jun 2007 18:53:14 GMT
                        Server:...
Forms
                     : {}
: {[Accept-Ranges, bytes], [Content-Length, 45], [Content-Type, text/html], [Date, Tue, 22 Jun 2021
    15:10:59 GMT]...}
Headers
Images
InputFields
Links
ParsedHtml
                     : mshtml.HTMLDocumentClass
RawContentLength : 45
```

Managing Volumes:

```
PS C:\Users\Oyo Magpayo\Desktop> docker volume 1s
       VOLUME NAME
DRIVER
PS C:\Users\Oyo Magpayo\Desktop> docker volume create myvolume
myvolume
PS C:\Users\Oyo Magpayo\Desktop> docker volume ls
        VOLUME NAME
DRIVER
local
        myvolume
myvolume
PS C:\Users\Oyo Magpayo\Desktop> docker volume ls
DRIVER
        VOLUME NAME
PS C:\Users\Oyo Magpayo\Desktop> _
```

Mounting volumes on containers:

```
docker: Error response from daemon: Conflict. The container name "/apache" is already in use by container "5cf5119e9f8d2f5619704
                                                                                                                     See 'docker run --help'.
Scf
PS C:\Users\Oyo Magpayo\Desktop> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED
e627193c1d67 ubuntu:16.04 "/bin/bash" 2 hours ago
                                                                            STATUS
                                                                                                                         NAMES
                                                                          Exited (0) 2 hours ago
                                                                                                                         bold_feynman
PS C:\Users\Oyo Magpayo\Desktop> docker run --rm -d --name apache
151730b8edd06bf5ba35385b3c5ab2ec0e5a7cabf551a2fb022f0118f7ce49fb
                                                                        name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
PS C:\Users\Oyo Magpayo\Desktop> <mark>docker</mark> cp index.html apache:/usr/local/apache2/htdocs/
PS C:\Users\Oyo Magpayo\Desktop> <mark>cur</mark>l localhost
StatusCode : 200
StatusDescription : OK
 ontent
                       : <html><body><h1>It works in Docker!</h1></body></html>
RawContent
                       : HTTP/1.1 200 OK
Keep-Alive: timeout=5, max=100
                          Connection: Keep-Alive
                          Accept-Ranges: bytes
                          Content-Length: 56
                         Content-Type: text/html
Date: Tue, 22 Jun 2021 15:24:16 GMT
ETag: "38-5c55952a72440...
                          {}
{[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes],
[Content-Length, 56]...}
Forms
 leaders
Images
InputFields
                          {}
{}
Links
 ParsedHtml
                          mshtml.HTMLDocumentClass
RawContentLength
                       : 56
PS C:\Users\Oyo Magpayo\Desktop> docker stop apache
apache
.
PS C:\Users\Oyo Magpayo\Desktop> docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
a2aela88dc87b8cd3151ed115357f9e54f098b939322579442b07e4d2aba409f
 PS C:\Users\Oyo Magpayo\Desktop> curl localhost
StatusCode
                       : 200
StatusDescription : OK
 Content
                       : <html><body><h1>It works in Docker!</h1></body></html>
                       : HTTP/1.1 200 OK
RawContent
                          Accept-Ranges: bytes
                          Content-Length: 56
                          Content-Type: text/html
Date: Tue, 22 Jun 2021 15:24:48 GMT
ETag: "38-5c55952a72440"
                          Last-Modified: Tue, 22 Jun 2021 11:45:13 GMT
                          Server:..
                         {}
{[Accept-Ranges, bytes], [Content-Length, 56], [Content-Type, text/html], [Date, Tue, 22 Jun 2021
15:24:48 GMT]...}
Forms
Headers
Images
InputFields
                       : {}
: {}
Links
ParsedHtml
RawContentLength
                        : mshtml.HTMLDocumentClass
                       : 56
PS C:\Users\Oyo Magpayo\Desktop> <mark>docker</mark> stop apache
apache
PS C:\Users\Oyo Magpayo\Desktop> <mark>docker</mark> volume rm httpd_htdocs
httpd_htdocs
 S C:\Users\Oyo Magpayo\Desktop>
```